

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A gas leak detection device for a fuel cell system comprising a main valve in a fuel gas supply source, comprising:

a shutdown valve provided in a fuel gas supply channel downstream of said main valve;

a plurality of pressure monitoring devices ~~with different pressure ranges that each operate within a different predetermined pressure range and~~ monitor a pressure in said fuel gas supply channel between said main valve and said shutdown valve;

a depressurization treatment device that depressurizes the inside of said fuel gas supply channel; and

a determination device that monitors a variation of pressure in a sealed space of said fuel gas supply channel formed between said main valve and said shutdown valve after said main valve and said shutdown valve have been closed and determines an operation state of said main valve based on the variation of pressure in said sealed space, wherein

in said depressurization treatment, said fuel gas supply channel is depressurized until the pressure enters ~~a~~ the predetermined pressure range in which the pressure can be monitored in said plurality of pressure monitoring devices.

2. (Previously Presented) The gas leak detection device according to claim 1, wherein

at least one of said pressure monitoring devices is selected to monitor the pressure according to the pressure attained by depressurization of said fuel gas supply channel.

3. (Original) The gas leak detection device according to claim 1, wherein

a variation of pressure in said sealed space is determined as an abnormality of said main valve in the case where the pressure rises to or above a predetermined value.

4. (Original) The gas leak detection device according to claim 1, wherein a variation of pressure in said sealed space is determined as a gas leak from said fuel gas supply channel in the case where the pressure drops to or below the predetermined value.

5. (Original) The gas leak detection device according to claim 1, further comprising  
a recovery tank that recovers said fuel gas that flows through said fuel gas supply channel; and  
drive means that recovers said fuel gas into said recovery tank during said depressurization treatment.

6. (Original) The gas leak detection device according to claim 1, wherein said shutdown valve and said main valve are closed during depressurization downstream.

7. (Currently Amended) A gas leak detection device, comprising:  
a fuel gas supply source;  
a main valve that shuts down a fuel gas from said fuel gas supply source;  
a shutdown valve provided in a fuel gas supply channel downstream of said main valve;

a plurality of pressure monitoring means ~~with different pressure ranges that each operate within a different predetermined pressure range and~~ monitor a pressure in said fuel gas supply channel between said main valve and said shutdown valve;

depressurization treatment means that depressurizes the inside of said fuel gas supply channel; and

determination means that monitors a variation of pressure in a sealed space of said fuel gas supply channel formed between said main valve and said shutdown valve after said main valve and said shutdown valve have been closed and determines an operation state of said main valve based on the variation of pressure in said sealed space, wherein

in said depressurization treatment, said fuel gas supply channel is depressurized ~~to a~~ until the pressure enters the predetermined pressure range in which the pressure can be monitored in said plurality of pressure monitoring means.

8. (Currently Amended) A gas leak detection method for a fuel cell system comprising a main valve in a fuel gas supply source, comprising the steps of:

closing said main valve, while conducting a depressurization treatment of the downstream side of a fuel gas supply channel;

closing a shutdown valve provided in said fuel gas supply channel, while conducting the depressurization treatment of the downstream side;

monitoring via a plurality of monitoring devices that each operate within a different predetermined pressure range a variation of pressure in a sealed space of said fuel gas supply channel formed between said main valve and said shutdown valve, after said main valve and said shutdown valve have been closed;

and determining an operation state of said main valve based on a variation of pressure in said sealed space, wherein

in the step of ~~shutting down~~ closing said shutdown valve, said shut down valve is shut down when said sealed space is depressurized ~~to a~~ until the pressure enters the predetermined pressure range in which the pressure can be detected in ~~a pressure sensor~~ the plurality of pressure monitoring devices for detecting a pressure in said sealed space.

9. (Original) The gas leak detection method according to claim 8, wherein

when a plurality of pressure sensors with different pressure ranges are provided in said fuel gas supply channel,

in the step of monitoring said variation of pressure, one of said pressure sensors is selected for pressure detection according to the pressure in said sealed space.

10. (New) The gas leak detection device according to claim 1, wherein the plurality of pressure monitoring devices include at least a high pressure monitoring device and a low pressure monitoring device,

wherein the high pressure monitoring device is configured to have a first pressure monitoring range and to monitor a pressure in a sealed space of the fuel gas supply channel formed between the main valve and a first shut down valve after the main valve,

and the low pressure monitoring device is configured to have a second pressure monitoring range less than the first monitoring range of the first pressure monitoring device and to monitor a pressure in a sealed space of the fuel gas supply channel between the first shut down valve and a second shut down valve.

11. (New) The gas leak detection device according to claim 1, wherein the plurality of pressure monitoring devices monitor the pressure in the fuel gas supply channel when a predetermined time elapses after said shut down valve has been closed.

12. (New) The gas leak detection device of claim 1, wherein the depressurization treatment device depressurizes the inside of the fuel gas supply channel by continuing consumption of the fuel gas in the fuel cell system.

13. (New) The gas leak detection device of claim 5, wherein the depressurization is executed using at least two of the following methods: hydrogen gas consumption within the fuel cell, a purge from the gas supply channel, and the hydrogen gas recovery treatment to the recovery tank.